

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1015	ornithine AND (transcarbamylase OR carbamoyltransferase)	US-PGPUB; USPAT	OR	OFF	2005/11/22 11:40
S2	134	S1 NOT human	US-PGPUB; USPAT	OR	OFF	2005/11/22 11:35
S3	731	ornithine ADJ (transcarbamylase OR carbamoyltransferase)	US-PGPUB; USPAT	OR	OFF	2005/11/22 11:41
S4	355	S3 AND (fungus OR fungal)	US-PGPUB; USPAT	OR	OFF	2005/11/22 11:42

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 ACD predicted properties enhanced in REGISTRY/ZREGISTRY
NEWS 4 OCT 03 MATHDI removed from STN
NEWS 5 OCT 04 CA/CAplus-Canadian Intellectual Property Office (CIPO) added to core patent offices
NEWS 6 OCT 13 New CAS Information Use Policies Effective October 17, 2005
NEWS 7 OCT 17 STN(R) AnaVist(TM), Version 1.01, allows the export/download of CAplus documents for use in third-party analysis and visualization tools
NEWS 8 OCT 27 Free KWIC format extended in full-text databases
NEWS 9 OCT 27 DIOGENES content streamlined
NEWS 10 OCT 27 EPFULL enhanced with additional content
NEWS 11 NOV 14 CA/CAplus - Expanded coverage of German academic research

NEWS EXPRESS NOVEMBER 18 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
<http://download.cas.org/express/v8.0-Discover/>

| | |
|------------|---|
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FILE 'HOME' ENTERED AT 14:19:25 ON 22 NOV 2005

FILE 'REGISTRY' ENTERED AT 14:19:59 ON 22 NOV 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 21 NOV 2005 HIGHEST RN 868586-21-4
DICTIONARY FILE UPDATES: 21 NOV 2005 HIGHEST RN 868586-21-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

```
=> e 9001-69-8/rn
E1      1      9001-67-6/RN
E2      1      9001-68-7/RN
E3      1 --> 9001-69-8/RN
E4      1      9001-70-1/RN
E5      1      9001-71-2/RN
E6      1      9001-72-3/RN
E7      1      9001-73-4/RN
E8      2      9001-74-5/RN
E9      1      9001-75-6/RN
E10     1      9001-76-7/RN
E11     1      9001-77-8/RN
E12     1      9001-78-9/RN

=> s e3/all
'ALL' IS NOT A VALID FIELD CODE
L1      0 9001-69-8/ALL

=> s e3 all
MISSING OPERATOR

=>
=> s e3; d
L2      1 9001-69-8/RN
```

```
L2  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN  9001-69-8  REGISTRY
ED  Entered STN: 16 Nov 1984
CN  Carbamoyltransferase, ornithine (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN  Carbamylphosphate-ornithine transcarbamylase
CN  Citrulline phosphorylase
CN  E.C. 2.1.3.3
CN  L-Ornithine carbamoyltransferase
```

CN L-Ornithine carbamyltransferase
 CN L-Ornithine transcarbamylase
 CN Ornithine carbamoyltransferase
 CN Ornithine carbamylase
 CN Ornithine carbamyltransferase
 CN Ornithine transcarbamoylase
 CN Ornithine transcarbamylase
 DR 37338-46-8
 MF Unspecified
 CI MAN
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,
 CA, CABA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB,
 DDFU,
 DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, NIOSHTIC, PIRA, PROMT,
 TOXCENTER, USPAT2, USPATFULL
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

STRUCTURE DIAGRAM IS NOT AVAILABLE

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2426 REFERENCES IN FILE CA (1907 TO DATE)
 16 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 2427 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus biosis caba agricola scisearch

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 7.86 | 8.07 |

FILE 'CAPLUS' ENTERED AT 14:28:32 ON 22 NOV 2005

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FILE 'SCISEARCH' ENTERED AT 14:28:32 ON 22 NOV 2005

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=> s l2<chem>

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See HELP TRANSFER and HELP ANALYZE for Details

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 4.31 | 12.38 |

FILE 'REGISTRY' ENTERED AT 14:28:47 ON 22 NOV 2005

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SET COMMAND COMPLETED

SEL L2 1- CHEM
L3 SEL L2 1- CHEM : 13 TERMS

SET SMARTSELECT OFF
SET COMMAND COMPLETED

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 10.93 | 23.31 |

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S L3
L4 7500 L3

=> s l4 AND (fungi OR fungus OR fungal OR magnaporthe)
L5 202 L4 AND (FUNGI OR FUNGUS OR FUNGAL OR MAGNAPORTHE)

=> dup rem 15
PROCESSING COMPLETED FOR L5
L6 172 DUP REM L5 (30 DUPLICATES REMOVED)

=> d all 1

L6 ANSWER 1 OF 172 CAPLUS COPYRIGHT 2005 ACS on STN

Full Text

AN 2004:1037226 CAPLUS
DN 142:32918
ED Entered STN: 03 Dec 2004
TI Method for the identification of inhibitors of ornithine carbamoyltransferase, ketol-acid reductoisomerase, and fungal pathogenicity-conferring gene as antibiotics
IN Tanzer, Matthew M.; Hamer, Lisbeth; Adachi, Kiichi; Dezwaan, Todd M.; Lo, Sze-Chung C.; Montenegro-Chamorro, Maria V.; Darveaux, Blaise A.; Frank, Sheryl A.; Heiniger, Ryan W.; Mahanty, Sanjoy K.; Pan, Huaqin; Covington, Amy S.; Tarpey, Rex; Shuster, Jeffrey R.
PA Paradigm Genetics, Inc., USA
SO PCT Int. Appl., 179 pp.
CODEN: PIXXD2
DT Patent

LA English
IC ICM C12N
CC 1-5 (Pharmacology)

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2004104176 | A2 | 20041202 | WO 2004-US15404 | 20040517 |
| | WO 2004104176 | A3 | 20051013 | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG | | | | |
| | US 2005019846 | A1 | 20050127 | US 2004-849985 | 20040520 |
| PRAI | US 2003-470947P | P | 20030515 | | |
| | US 2003-471615P | P | 20030519 | | |
| | US 2003-472242P | P | 20030521 | | |

CLASS

| | PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES |
|----|--|-------|------------------------------------|
| | WO 2004104176 | ICM | C12N |
| | US 2005019846 | NCL | 435/007.310 |
| AB | The present inventors have discovered that ornithine carbamoyltransferase, ketol-acid reductoisomerase and a pathogenicity-conferring gene sequence (PCGI) are essential for normal fungal pathogenicity. Specifically, the inhibition of ornithine carbamoyltransferase gene expression in fungi eliminates pathogenicity, the inhibition of ketol-acid reductoisomerase gene expression in fungi results in drastically reduced pathogenicity, and the inhibition of the expression of the genomic sequence set forth in SEQ ID NO: 11 (PCGI) in fungi results in the elimination of pathogenicity. Thus, ornithine carbamoyltransferase, ketol-acid reductoisomerase, and PCGI are useful as targets for the identification of antibiotics, preferably antifungals. Accordingly, the present invention provides methods for the identification of compds. that inhibit ornithine carbamoyltransferase, ketol-acid reductoisomerase, and PCGI expression or activity. The methods of the invention are useful for the identification of antibiotics, preferably antifungals. | | |
| ST | ornithine carbamoyltransferase ketol acid reductoisomerase fungal gene antibiotic | | |
| IT | Antibiotics | | |
| | Fungi | | |
| | Fungicides | | |
| | High throughput screening | | |
| | Magnaporthe grisea | | |
| | Mycosphaerella | | |
| | Mycosphaerella graminicola | | |
| | (method for identification of inhibitors of ornithine carbamoyltransferase, ketol-acid reductoisomerase, and fungal pathogenicity-conferring gene as antibiotics) | | |
| IT | 61-90-5, L-Leucine, biological studies 72-18-4, L-Valine, biological studies 73-32-5, L-Isoleucine, biological studies 9001-69-8, Ornithine carbamoyltransferase 9024-32-2, Acetohydroxyacid dehydratase 9027-45-6, Acetolactate synthase 9075-02- | | |

9,

Ketol-acid reductoisomerase

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(method for identification of inhibitors of **ornithine carbamoyltransferase**, ketol-acid reductoisomerase, and
fungal pathogenicity-conferring gene as antibiotics)

IT 53-57-6, NADP(H) 53-59-8, NAD(P) 562-43-6 3142-65-2 19451-56-0
71698-08-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(method for identification of inhibitors of **ornithine carbamoyltransferase**, ketol-acid reductoisomerase, and
fungal pathogenicity-conferring gene as antibiotics)

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